

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DUPLICATE
(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

NAME OF OPERATOR
Tenneco Oil Company

ADDRESS OF OPERATOR
720 South Colorado Blvd., Denver, Colorado 80222

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 680 FNL, 1400 FEL
At proposed prod. zone

DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
22 miles northwest of Westwater

5. LEASE DESIGNATION AND SERIAL NO.
U-31468

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Wilson

9. WELL NO.
33-2

10. FIELD AND POOL, OR WILDCAT
Morrison

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33, T16S, R24E

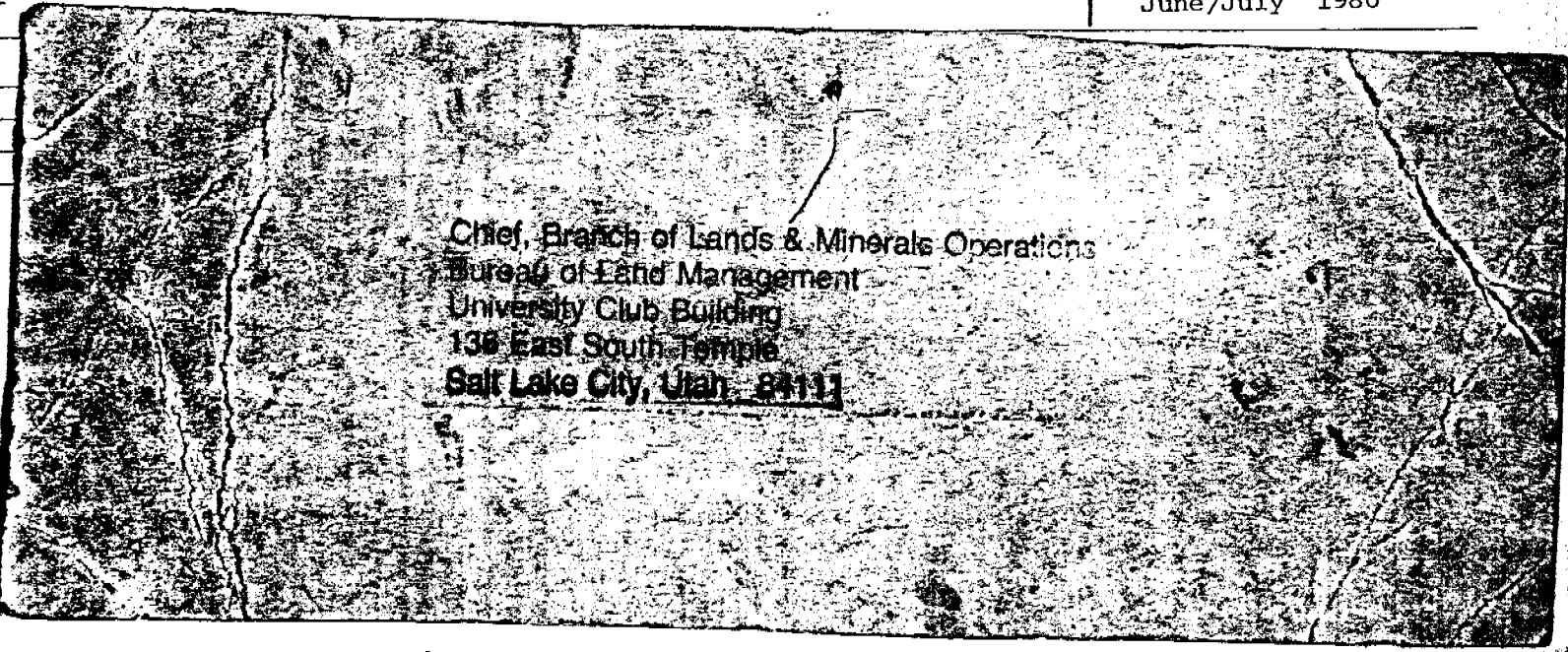
12. COUNTY OR PARISH
Grand

13. STATE
Utah

DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
16. NO. OF ACRES IN LEASE 520
17. NO. OF ACRES ASSIGNED TO THIS WELL 280

DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
19. PROPOSED DEPTH 6500
20. ROTARY OR CABLE TOOLS Rotary

ELEVATIONS (Show whether DF, RT, GR, etc.)
22. APPROX. DATE WORK WILL START* June/July 1980



Chief, Branch of Lands & Minerals Operations
Bureau of Land Management
University Club Building
136 East South Temple
Salt Lake City, Utah 84111

APPROVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

SIGNED [Signature] TITLE Staff Production Analyst DATE May 15, 1980

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE
APPROVED BY (Orig. Sgd.) R. A. Henricks FOR E. W. GUYNNE DISTRICT ENGINEER DATE AUG 29 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

Ut. State BLM

Form P-231 C
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions
reverse side)

Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

720 South Colorado Blvd., Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 680 FNL, 1400 FEL

At proposed prod. zone

5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

22 miles northwest of Westwater

6. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

7. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

8. ELEVATIONS (Show whether DF, RT, GR, etc.)

7378 GR

9. LEASE DESIGNATION AND SERIAL NO.

U-31468

10. IF INDIAN, ALLOTTEE OR TRIBE NAME

11. UNIT AGREEMENT NAME

12. FARM OR LEASE NAME

Wilson

13. WELL NO.

33-2

14. FIELD AND POOL, OR WILDCAT

Morrison

15. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 33, T16S, R24E

16. COUNTY OR PARISH

Grand

17. STATE

Utah

18. NO. OF ACRES IN LEASE

520

19. NO. OF ACRES ASSIGNED TO THIS WELL

280

20. PROPOSED DEPTH

6500

21. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

June/July 1980

3. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23# K55	2780'	Circulate to surface
6 1/4"	4 1/2" new	10.5# K55	6500'	Cover all possible productive zones

Set 1-2 joints 9 5/8" casing as conductor.

280 AC spacing set by Cause No. 165-4.

Archaeology survey attached.

Pre-staking request attached.

State of Utah, Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE Staff Production Analyst DATE May 15, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY (Orig. Sgd.) R. A. Henricks FOR E. W. GUYNN
DISTRICT ENGINEER

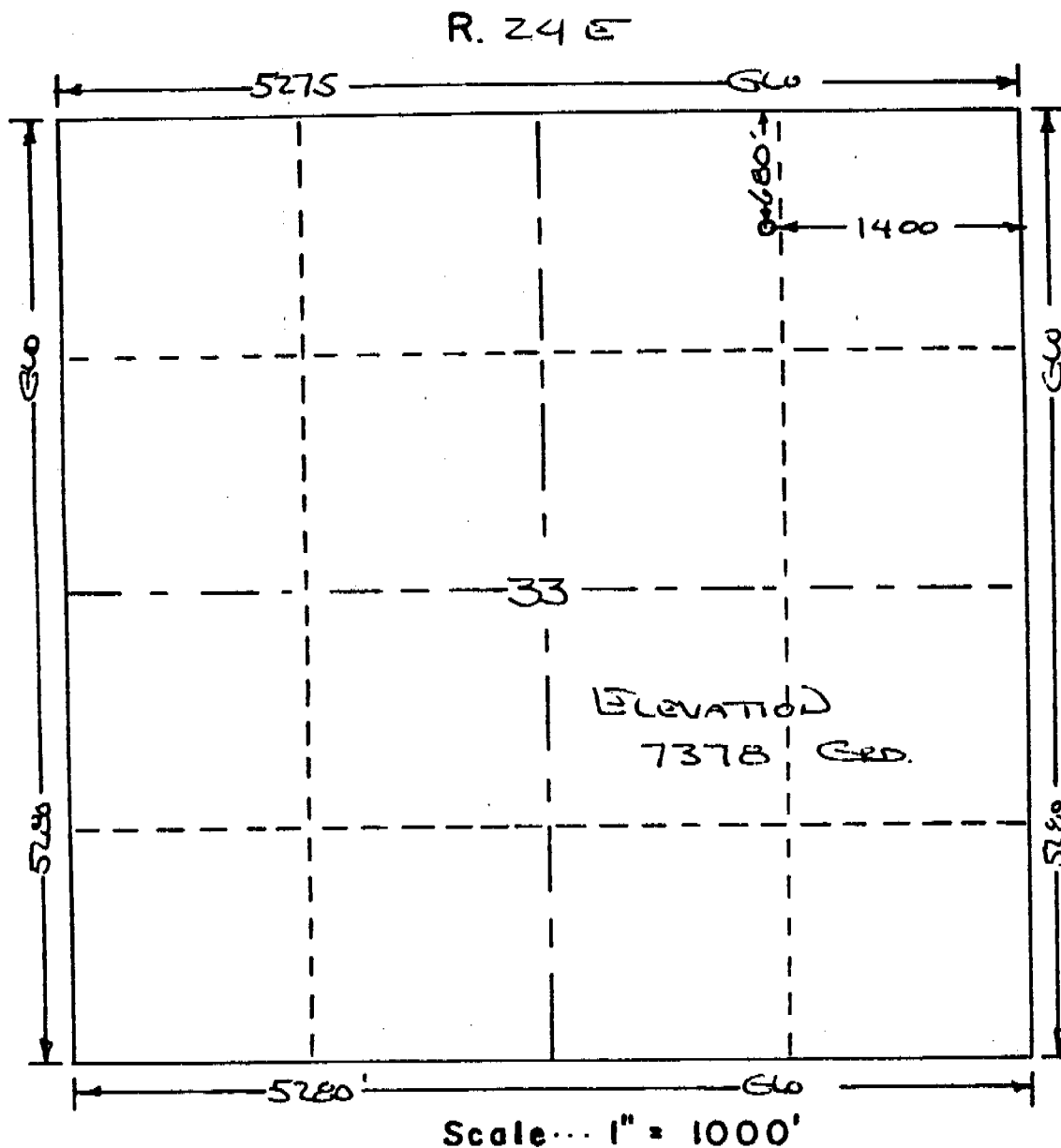
CONDITIONS OF APPROVAL, IF ANY: CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

DATE AUG 29 1980

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

NOTICE OF APPROVAL
Ut. State O+G

*See Instructions On Reverse Side



T.
16
S.

Powers Elevation of Denver, Colorado
has in accordance with a request from Mr. Traywick
for *TEMPERED OIL CO. WILSON*
determined the location of # 33-2-
to be 680' FNL & 1400' FEL, Section 33, Township 16 South,
Range 24 EAST of the Salt Lake Meridian,
Grand County, Utah.

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
33-2-FEDERAL

Date: 28 Nov 79

T. Wilson
Licensed Land Surveyor No. 2711
State of Utah

Glenn *Penner Del*
30-165-24E
Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn
From: Mining, Supervisor, Mr. Jackson W. Moffitt
Subject: Application for Permit to Drill (form 9-331c) Federal oil and
gas lease No. U-31468 Well No. 33-2

1. The location appears potentially valuable for:

☐ strip mining*

☒ underground mining** *coal*

☐ has no known potential.

2. The proposed area is

☐ under a Federal lease for _____ under
the jurisdiction of this office.

☒ not under a Federal lease under the jurisdiction of
this office.

☒ Please request the operator to furnish resistivity,
density, Gamma-Ray, or other appropriate electric
logs covering all formations containing potentially
valuable minerals subject to the Mineral Leasing Act
of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the
lowest strip minable zone at _____ and cemented
to surface. Upon abandonment, a 300-foot cement plug should
be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point
100 feet below the formation to 100 feet above the formation.
Water-bearing horizons should be cemented in like manner.
Except for salines or water-bearing horizons with potential
for mixing aquifers, a depth of 4,000 feet has been deemed
the lowest limit for cementing.

Signed *Allen J. Vance*

JUN 16 REC'D

STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

- 1 Contact this office at least 24 hours prior to beginning construction of access road and pad.
- 2 Stockpile the surface six inches of topsoil in a wind-row on the north side of the location.
- 3 The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.
- 4 Notify the BLM District Archaeologist if cultural material from sub-surface deposits is exposed during the operation.
- 5 The trash cage will be at the location and fenced with fine mesh wire during drilling operations.
- 6 The "blooey" line will be centered and directed into the pit.
- 7 If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil and Gas" pamphlet (joint BLM, USGS, and USFS publication).
- 8 If production is obtained, all production facilities will be painted "desert tan" or a similar color approved by the Grand Resource Area Manager.
- 9 Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.
- 10 Production facilities and pipeline route are approved on this location under lease rights.
- 11 As agreed on at the pre-drill field exam -

New access road -

1. Trees (pinon and juniper) removed along access and stockpiled in a windrow along the upslope side.
2. Topsoil that can be saved will be windrowed along the upslope side of access road, between the road and trees.
3. Low water crossings will be installed at each drainage and water channels will be kept open.

12 Reserve Pit -

1. Moved from southeast quadrant of pad to the southwest quadrant.

2. Pit will be dug to a dimension of 20 feet wide, 175 feet long, 6-6 feet deep. Bottom of pit will be ripped, soil scattered over the rock bottom, and pit will be lined with bentonite.

Contact the Grand County Road Superintendent if you plan to use county roads for access to the location.

SEED MIXTURE

Grasses

lb/acre

Oryzopsis hymenoides
Agropyron intermediate

Indian ricegrass 1
Intermediate wheatgrass 1

Forbs

Sphaeralcea coccini

Globemallow 1

Shrubs

Purshia tridentata
Cercocarpus montanus

Bitterbrush 1
Mountain mahogany 1

5

RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
 - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
 - a. Lay berms into centers.
 - b. Use cut material for fill areas.
 - c. Lay stockpiled surface soil over top of pads and spread evenly.
 - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
 - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by this office.

* 2%	Grade	-	200 ft. intervals
2-4%	Grade	-	100 ft. intervals
4-5%	Grade	-	75 ft. intervals
5%	Grade	-	50 ft. intervals

* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars are to be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (Oct. through mid-Dec.).

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Area Oil and Gas Supervisor or
District Engineer (Address, include zip code)

SURFACE DISTURBANCE STIPULATIONS

Management Agency (name)

See reverse side.

Address (include zip code)

See reverse side.

1. Notwithstanding any provision of this lease to the contrary, any drilling, construction, or other operation on the leased lands that will disturb the surface thereof or otherwise affect the environment, hereinafter called "surface disturbing operation," conducted by lessee shall be subject, as set forth in this stipulation, to prior approval of such operation by the Area Oil and Gas Supervisor in consultation with appropriate surface management agency and to such reasonable conditions, not inconsistent with the purposes for which this lease is issued, as the Supervisor may require to protect the surface of the leased lands and the environment.

2. Prior to entry upon the land or the disturbance of the surface thereof for drilling or other purposes, lessee shall submit for approval two (2) copies of a map and explanation of the nature of the anticipated activity and surface disturbance to the District Engineer or Area Oil and Gas Supervisor, as appropriate, and will also furnish the appropriate surface management agency named above, with a copy of such map and explanation.

An environmental analysis will be made by the Geological Survey in consultation with the appropriate surface management agency for the purpose of assuring proper protection of the surface, the natural resources, the environment, existing improvements, and for assuring timely reclamation of disturbed lands.

3. Upon completion of said environmental analysis, the District Engineer or Area Oil and Gas Supervisor, as appropriate, shall notify lessee of the conditions, if any, to which the proposed surface disturbing operations will be subject.

Said conditions may relate to any of the following:

- (a) Location of drilling or other exploratory or developmental operations or the manner in which they are to be conducted;
- (b) Types of vehicles that may be used and areas in which they may be used; and
- (c) Manner or location in which improvements such as roads, buildings, pipelines, or other improvements are to be constructed.

For all counties in Utah except San Juan County:

Area Oil and Gas Supervisor
Geological Survey,
P. O. Box 2859
Casper, Wyoming 82601

For San Juan County:

Area Oil and Gas Supervisor
Geological Survey,
P. O. Box 26124
Albuquerque, New Mexico 87125

Form 3109-5 (August 1973)



United States Department of the Interior

IN REPLY REFER TO

3100
(U-603)

BUREAU OF LAND MANAGEMENT
Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

July 2, 1980

Memorandum

To: Oil and Gas Office, USGS Conservation Division
P.O. Box 3768, Grand Jct., CO
From: Area Manager, Grand Acting
Subject: Tenneco Oil Company
Wilson 33-2, Lease U-31468
NE/NE Section 33, T. 16 S., R. 24 E.
Grand County, Utah

On May 25, 1980, a representative from this office met with Glen Doyle, USGS, and Lee Freeman agent of Tenneco Oil Company for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Tenneco Oil Company.

C. Delano Backus

Enclosures (2)
1-Reclamation Procedures
2-Seed Mixture



Save Energy and You Serve America!

JUL 8 RECD

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐
b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
720 South Colorado Blvd., Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface 680 FNL, 1400 FEL NW NE
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
22 miles northwest of Westwater

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE
520
19. PROPOSED DEPTH.
6500
Morrison

17. NO. OF ACRES ASSIGNED TO THIS WELL
320 ^{Laydown} ~~300~~ ~~standup~~
20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7378 GR

22. APPROX. DATE WORK WILL START*
June/July 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23# K55	2780'	Circulate to surface
6 1/4"	4 1/2" new	10.5# K55	6500'	Cover all possible productive zones

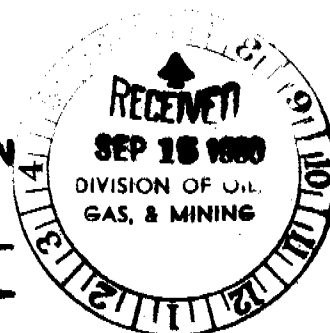
Set 1-2 joints 9 5/8" casing as conductor.

280 AC spacing set by Cause No. 165-4.

Archaeology survey attached.

Pre-staking request attached.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: 9-18-80
BY: M.J. Mindes



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

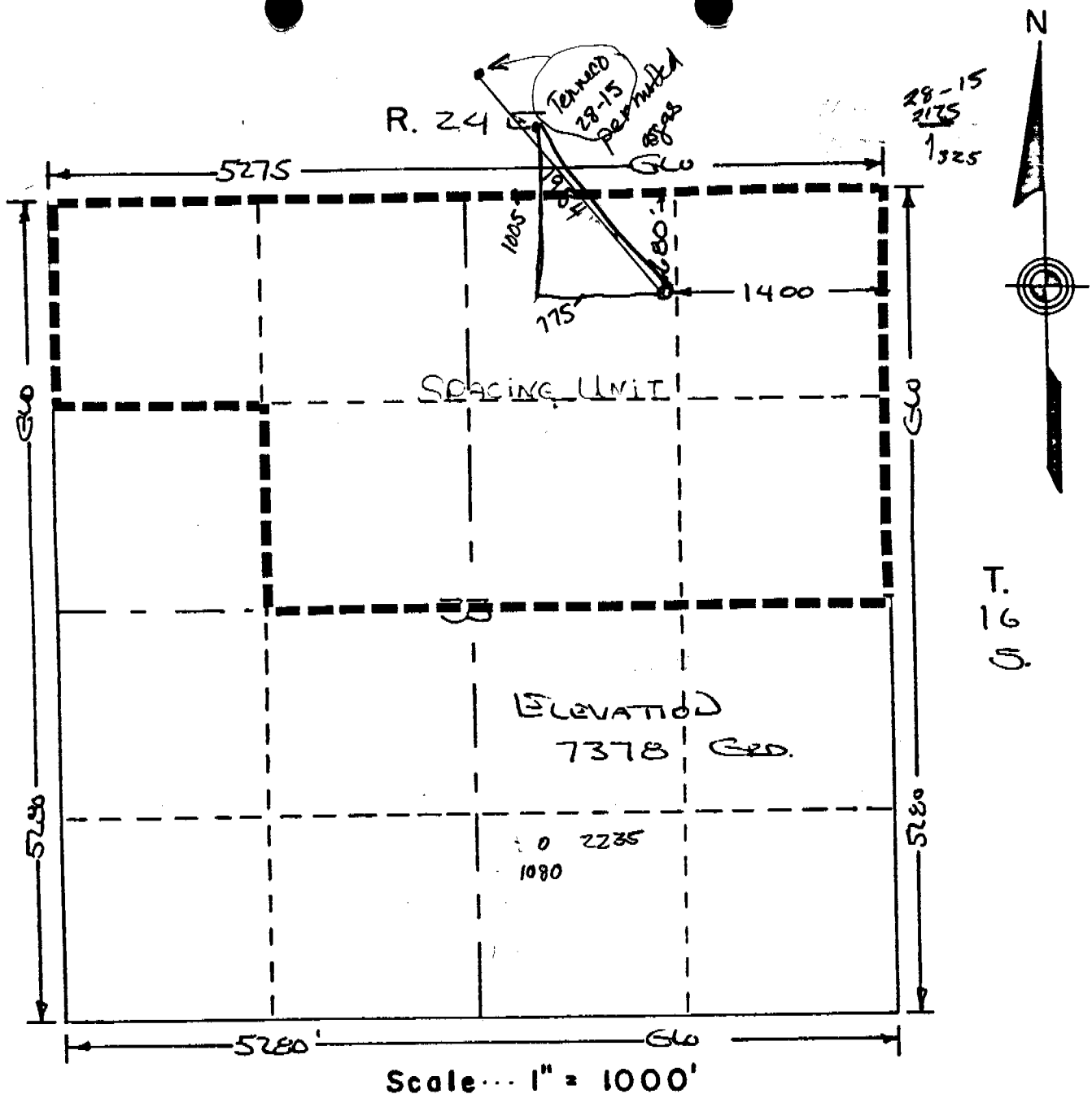
24.

SIGNED M.J. Mindes TITLE Staff Production Analyst DATE May 15, 1980

(This space for Federal or State office use)

PERMIT NO. 43-019-30703 APPROVAL DATE 9/18/80

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



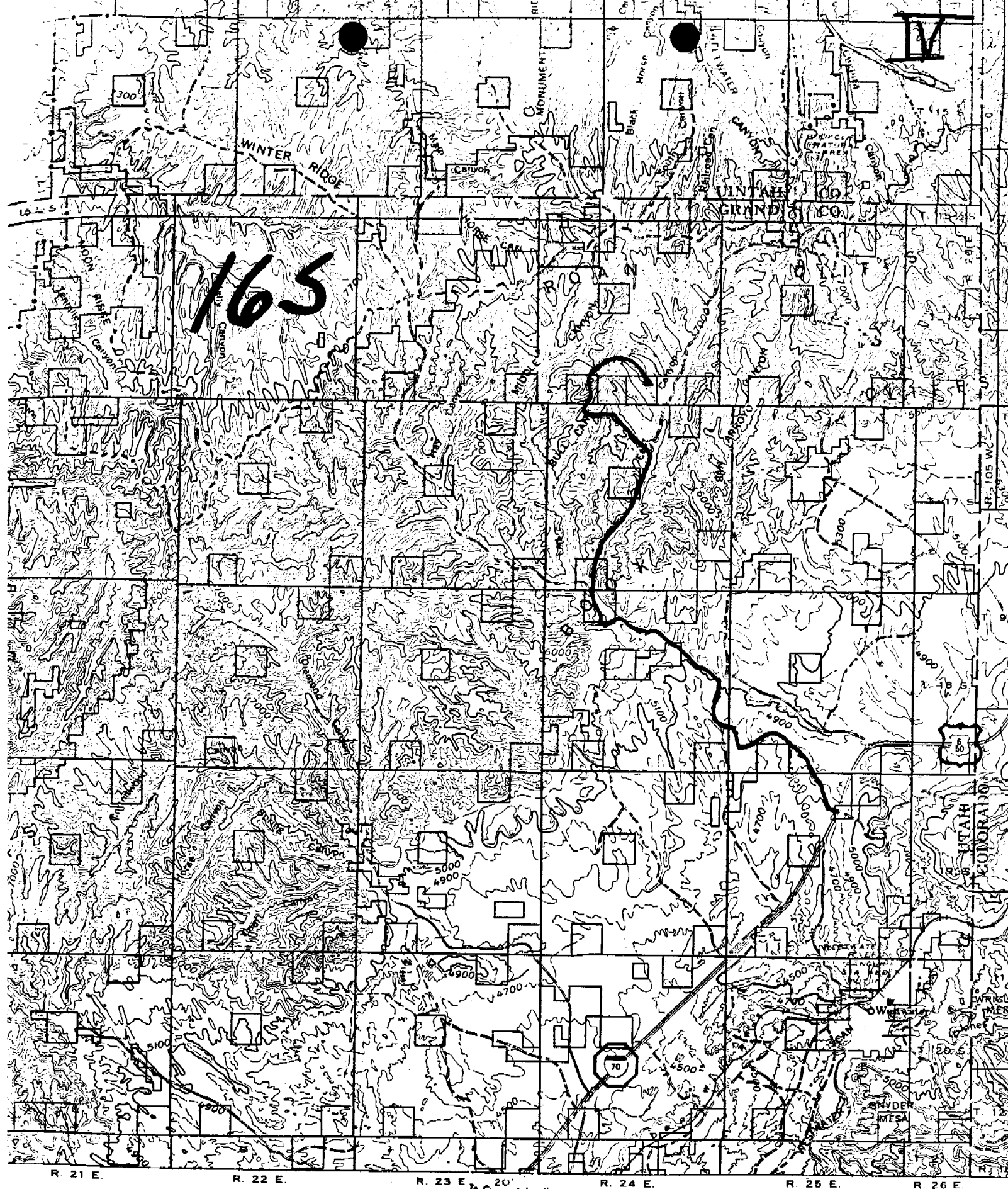
Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from Mr. Traywick
for TERRACE OIL CO.
determined the location of # 33-2 - FEDERAL WILSON
to be 680' FNL & 1400' FEL, Section 33, Township 16 South,
Range 24 EAST of the Salt Lake Meridian,
Garfield County, Utah.

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
33-2 - FEDERAL

Date: 23 Nov 79

T. Nelson
Licensed Land Surveyor No. 2711
State of Utah

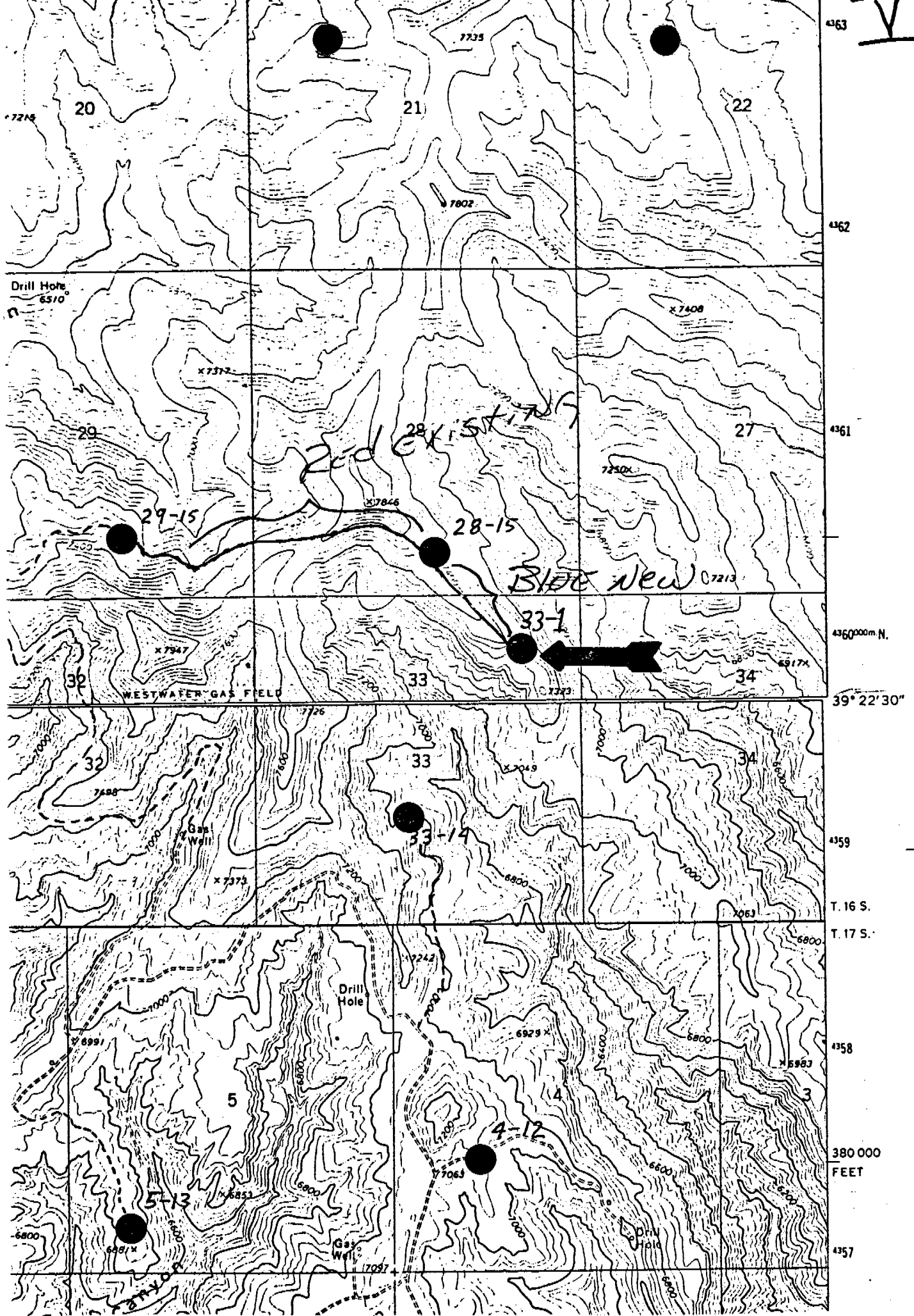


LEGEND

MARCH 1978

RCF LAND

114° 112° 42°



Drill Hole
6510

WESTWATER GAS FIELD

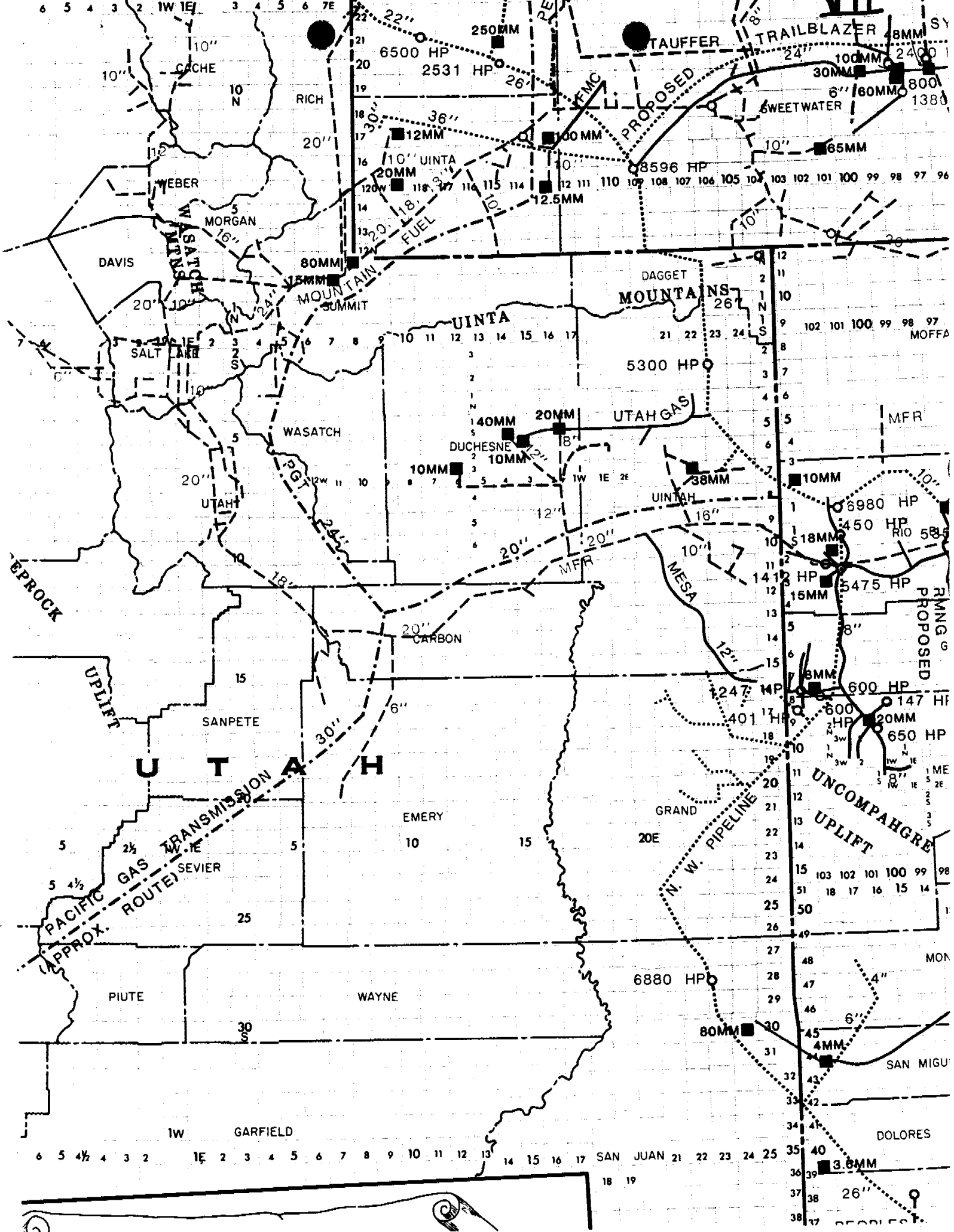
Red Existing

BIDE NEW



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380 000
FEET



Oil and Gas Drilling

EA No. 439-80

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

USUAL ENVIRONMENTAL ASSESSMENT

Date July 14, 1980

Operator Tenneco Oil Co. Well No. 33-2
Location 680' FNL 1400' FEL Section 33 Township 16S Range 24E
County Grand State Utah Field/Unit Wildcat
Lease No. U- 31468 Permit No. _____

Prepared by: Glenn M. Doyle
Environmental Scientist
Grand Junction, Colorado

Joint Field Inspection Date: June 25, 1980

Field Inspection Participants, Titles, and Organizations:

<u>Lee Freeman, John Owen</u>	<u>Operator</u>
<u>Dallas Galley, Bill Buniger</u>	<u>Dirt Contractors</u>
<u>Elmer Duncan</u>	<u>Bureau of Land Management</u>
<u>Glenn Doyle, John Connor</u>	<u>U. S. Geological Survey</u>
_____	_____
_____	_____
_____	_____

Related Environmental Documents:

BLM-Moab, Book Mountain Unit Resource Analysis.

BLM-Utah, 1979, Final initial wilderness inventory, USDI, August, 50 pp.

*Admin Council?
Pac 1400' 310
Pit 25' 175
5/10 mi 220' 211 ac? Pg 386
Pit lining
Cond of App
Pg 287
1-6*

DESCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah
 County: Grand

680 ' F N L, 1400 ' F E L, NW 1/4 NE 1/4

Section 33, T16S, R24E, SLBM

2. Surface Ownership Location: Public
 Access Road: Public

Status of Reclamation Agreements: Not Applicable

3. Dates APD Filed: 5/16/80
 APD Technically Complete: 6/03/80
 APD Administratively Complete:

4. Project Time Frame Starting Date: July 1980
 Duration of drilling activities: 10-12 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:
None known

6. Nearby pending actions which may affect or be affected by the proposed action:
None known

7. Status of variance requests:
None known

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 140' wide x 310' long and a reserve pit 25' x 175' would be constructed. Approximately .5 miles of new access road, averaging 20' in width, would be constructed from a maintained road. 2.2 acres of disturbed surface would be associated with the project.
2. Drilling
3. Waste disposal

4. Traffic
5. Water requirements
6. Completion
7. Production
8. Transportation of hydrocarbons

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography - The proposed wellsite lies on the nose of a ridge which slopes gently to the east and is flanked on all sides by steep talus slopes and cliffs.

PARAMETER

A. Geology - The surface formation is Mancos Shale, Cretaceous in age.

Information Source: Application to Drill.

1. Other Local Mineral Resources to be Protected: Coal beds in the Neslen Member of the Price River Formation ($\pm 1600'$). Logging through casing of Neslen Member to identify and protect coal beds (natural gamma and gamma density).

Information Source: ME, District Geologist.

2. Hazards:

- a. Land Stability: Location and access built on Mesaverde. Material is stable, provided the slopes are moderate and moisture content is low.

Information Source: Field observation.

- b. Subsidence: Subsidence can occur with the withdrawal of oil, gas, and/or water.

Information Source: Keller, Edward A., 1976, Environmental geology, Charles E. Merrill, 488 pp.

- c. Seismicity: Seismic risk: low. Statistically, greatest damage would be moderate, corresponding to intensity VII of Modified Mercalli Intensity Scale, 1931.

Information Source: Perkins, David M., 1974, Seismic risk maps, Reprint of Earthquake information bulletin, 6(6) Nov-Dec.; Algermissen, S. T., and Perkins, David M., 1977, Earthquake hazards map of the United States, Reprint from Earthquake Information Bulletin, 9(1) Jan-Feb., 4 pp.; von Hake, Carl A., Earthquake History of Utah, NOAA.

- d. High Pressure Zones/Blowout Prevention: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application to Drill.

B. Soils

1. Soil Character: No detailed soil surveys done in area. Changes in soil fertility, horizons, slope stability, etc., cannot be predicted. Soils are considered nitrogen-poor, alkaline soils that support the salt-desert community.

Information Source: Field observation.

2. Erosion/Sedimentation: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done.

Information Source: Field observation.

- C. Air Quality - Wellsite lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: BLM-Moab, Book Mountain Unit Resource Analysis.

- D. Noise Levels - Ambient noise levels temporarily elevated. Personnel safety could be jeopardized. Wildlife would avoid area.

Information Source: Field observation.

E. Water Resources

1. Hydrologic Character

- a. Surface Waters: No significant impacts to surface water systems are expected, provided the operator maintains all adverse substances either on the pad or in a fluid-tight reserve pit.

Information Source: Field observation.

- b. Groundwaters: Fractured bedrock is likely to be encountered during pit construction. Contamination to groundwaters due to leaks or spills is potentially significant. Contamination to groundwaters through commingling with drilling fluids is possible.

Information Source: Field observation.

2. Water Quality

- a. Surface Waters: Release of produced and/or circulating fluids from the reserve pit could cause a significant adverse affect on surface water quality, depending on fluids chemical composition.

Information Source: Field observation.

b. Groundwaters: Operator proposes 2780' of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be lined with two to three inches of bentonite gel raked into the soil.

Information Source: Application to Drill and Field observation.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the Bureau of Land Management on July 8, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Construction would remove about 2.2 acres of vegetation increasing potential for non-point erosion and decreasing soil fertility.

Information Source: Application to Drill and Field observation.

3. Fauna: Vegetation removal reduces wildlife habitats and food sources. Deer are not known to winter in the area. No known migratory bird nesting areas, strutting or breeding grounds, or fish-spawning areas would be impacted by proposed action.

Information Source: BLM-Moab, Book Mountain Unit Resource Analysis.

G. Land Uses

1. General: Oil and gas operations, recreation, and grazing are major land uses. Amount and quality of land available to livestock, wildlife, and recreationists would be reduced during well life.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: N/A

Information Source: Field observation.

H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well.

Information Source: Field observation.

I. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: G. Doyle, Environmental Scientist, USGS.

J. Cultural Resources Determination: Based on the formal comments received from the Bureau of Land Management on July 8, 1980, we determine that there would be no effect on cultural resources subject to no stipulations.

Information Source: Bureau of Land Management - Moab.

K. Adequacy of Restoration Plans: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

Information Source: G. Doyle, Environmental Scientist, USGS.
David Oberwager, Env. Spec. (Reclamation), USGS-AOSO.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:
 - a. About 2.2 acres of vegetation would be removed, increasing and accelerating erosion potential.
 - b. Pollution of groundwater systems ^{could} would occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
 - c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
 - d. The potential for fires, leaks, spills of gas and oil or water exists.
 - e. During construction and drilling phases of the operation, noise and dust levels would increase.
 - f. Distractions from aesthetics during the lifetime of the project would exist.
 - g. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution would exist through leaks and spills.


h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

i. Other:

- 1) Fractured bedrock is likely to be encountered during reserve pit construction. Contamination due to leakage into the subsurface would cause significant adverse impacts to the groundwater systems.
- 2) To accommodate the rig and the site, the reserve pit would need to be lengthened, narrowed, and shifted to the west.
- 3) Both cattle and sheep could be endangered by toxic or hazardous fluids in the reserve pit if it is not properly fenced.

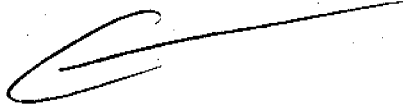
2. Conditional approval

a. All adverse impacts described in section one above would occur, except

- 1) By lining the reserve pit with two to three inches of bentonite gel, reserve pit integrity would be significantly improved. 
- 2) By narrowing, lengthening and shifting the reserve pit to the west, the rig and the topography would be better accommodated.
- 3) By fencing the reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off, hazards posed by fluids to livestock and wildlife would be mitigated.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations.
2. See attached BLM Stipulations. 
3. Line reserve pit with two to three inches of bentonite gel.
4. Shift reserve pit to the west. Lengthen and narrow pit to 25' x 175'.
5. Fence reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off.

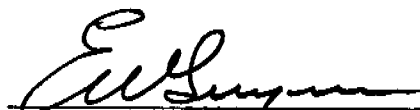
6. District Geologist and Mining Supervisor request appropriate gamma ray logs to identify and protect the coal in the Neslen Member of the Price River Formation.

Controversial Issues and Conservation Division Response: None known.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C).



DISTRICT ENGINEER

District Engineer
U. S. Geological Survey
Conservation Division
Oil & Gas Operations
Salt Lake City District

AUG 08 1980

Date

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: : DISTRICT GEOLOGIST, E, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-31468

OPERATOR: TENNECO OIL Co

WELL NO. 33-2

LOCATION: SE 1/4 NW 1/4 NE 1/4 sec. 33, T. 16 S, R. 24 E, SLM

GRAND County, UTAH

1. Stratigraphy:

TUSCHER FM	0	FRONTIER	5910'
MESAVEROE GP		DAKOTA SILT	6170'
PRICE RIVER FM		DAKOTA SS	6285'
FARRER MEM	600'	MORRISON FM	6400'
NESLEN MEM	1600'	SALT WASH MEM	NA
MANGOS SH (BUCKTONGUE)	2330'	ENTRADA	NA
CASTLEGATE SS	2580'	TD	6500'

2. Fresh Water:

MAY BE ENCOUNTERED UP TO 2330' (TOP OF BUCK TONGUE)
IN VARIOUS SANDS OF TUSCHER FM AND MESA-
VEROE GP.

3. Leasable Minerals:

GAS POSSIBLY ENCOUNTERED IN CASTLEGATE SS (2580'),
DAKOTA SS (6285') OR MORRISON FM.

COAL BEDS IN NESLEN MEM ($\pm 1600'$), PRICE RIVER FM.

4. Additional Logs Needed:

LOGGING THROUGH CASING OF NESLEN MEM TO
IDENTIFY AND PROTECT COAL BEDS (NATURAL GAMMA
AND GAMMA DENSITY)

5. Potential Geologic Hazards:

NONE ANTICIPATED

6. References and Remarks:

DOELLING, COAL MONOGRAPH, SERIES #2.

PI FILES

USGS, BCR COAL DRILLING PROJECT

Signature: Kenneth J. Salt

Date: 04 JUN - 1980

12 JUN RECD

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation:
- 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)
4. Proposed Casing Program:

(See Attached Drilling Procedure)
5. Blowout Preventors:
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.)
7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
10. The drilling of this well will start approximately (June/July) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

TEENECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: ROCKY MOUNTAIN

DATE: September 20, 1979

LEASE: Federal

WELL NO.: 33-2

LOCATION: 680 FNL, 1400 FEL
Sec. 33, T 16S, R 24E
Grand County, Utah

FIELD: Westwater

ESTIMATED ELEVATION: 7320' GL

ESTIMATED TOTAL DEPTH: 6500'

PROJECTED HORIZON: Morrison

DRILLING, CASING AND CEMENT PROGRAM:

- (1) MIRURT.
- (2) Set 1-2 jts. of 9 5/8" casing to be used as conductor pipe.
- (3) Drill 8 3/4" hole to 2780' or 200' ± into the Castlegate Formation.
- (4) Run 7" intermediate casing to TD. Cement with sufficient volume to circulate cement to the surface.
- (5) WOC. NU BOP's, etc. Pressure test BOP's, manifold, etc. to 1500 psi for 15 minutes. Drill out shoe.
- (6) Drill 6 1/4" hole to TD.
- (7) Log well as per G.E. Dept. recommendations.
- (8) If productive, run 4 1/2" casing to TD. Cement with sufficient volume to cover all possible productive zones. If non-productive, P & A as per regulatory agency specifications.

ESTIMATED FORMATION TOPS:

Mesa Verde	Surface
Mancos	2330'
Castlegate	2580'
Frontier	5910'
Dakota Silt	6170'
Dakota	6285'
Morrison	6400'
Salt Wash	N/A
Entrada	N/A
TD	6500'

DRILLING MUD PROGRAM:

0 - 2780'	Air/mist)	If mud up is necessary:	WT. - \pm 9.0 ppg.
)		Vis. - as needed.
2780' - TD	Air/mist)		W.L. - 10-15 cc.

CORING AND TESTING PROGRAM:

NONE

DEVIATION SURVEYS:

1. Survey surface hole at 100' intervals. Maximum allowable deviation at
2. FROM SURFACE TO TOTAL DEPTH DEVIATION SURVEYS MUST BE TAKEN EVERY 500' OR EACH TRIP WHICHEVER IS FIRST. This may entail running the TOTCO on wireline. Record each survey on the AAODC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'.

SAMPLES:

NONE

WELL SURVEYS:

SNP/GR)	
FDC/GR)	Air Drilled
DIL)	

FDC/CNL)	
DIL/LL8 w/SP)	Mud Drilled

BOP:

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RECORDED ON THE AAODC DRILLING REPORT SHEET.

REPORTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud costs, plus any other pertinent information; will be called into Tenneco Oil Company, Denver, Colorado between 7:30 A.M. and 8:00 A.M.

1. 303-758-7130 (office) - Don Barnes
303-758-7287 - Don Barnes private line - Monday-Friday (before 7:45 A.M.)
2. 303-936-0704 (home) - Don Barnes - weekends and holidays
3. 303-795-0221 (home) - John Owen - if Don Barnes not available

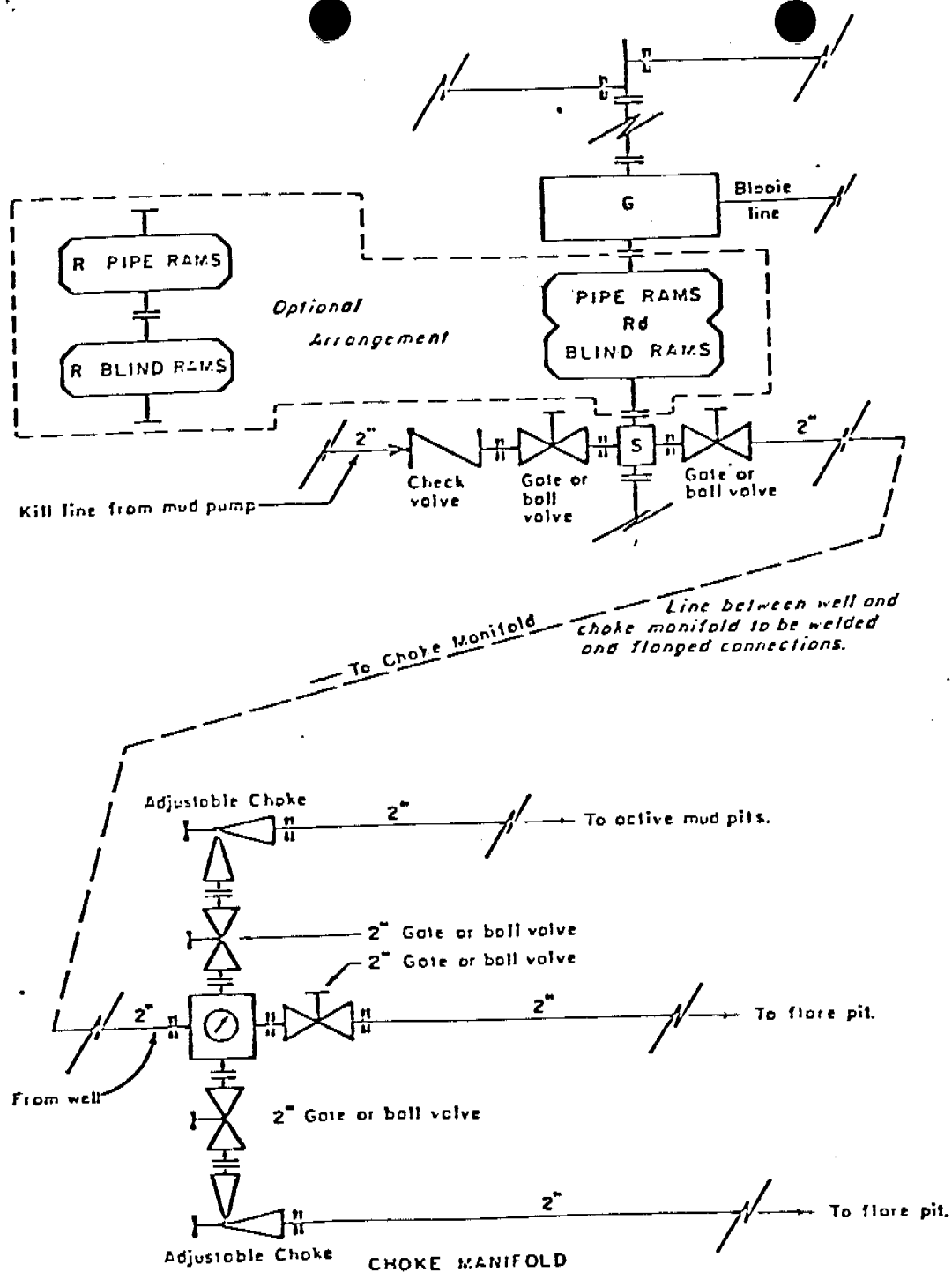
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an emergency, notify the following:

1. Mr. Don Barnes, Division Drilling Engineer - 303-936-0704.
2. Mr. John Owen, Project Drilling Engineer - 303-795-0221
3. Mr. Mike Lacey, Division Production Manager - 303-979-0509.



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AND
CHOKE MANIFOLD

J. MAGILL 10-26-70 EVI

I. EXISTING ROADS

(a) Proposed Well Site Location: As surveyed by a registered land surveyor is located 680 FNL 1400 FEL, Sec. 33, T16S, R24E, Grand County, Utah.
See Exhibit I.

(b) Planned Access Route:
See Exhibit IV & V.

(c) Access Road Labelled:

Color Code: Red - Improved surfaced roads
Blue - New access road to be constructed.

(d) Not applicable, the proposed well is a development well.

(e) The existing roads are show in Exhibit ~~XXX~~^{IV}. IV & V.

(f) Existing Road Maintenance or Improvement:

The existing road will not require improvement. However, this road, along with the new access road, may require occasional grading to return the road surface to a cross section necessary for proper drainage.

II. PLANNED ACCESS ROUTE

(a) Route Location - (See Exhibits ~~XXX~~^{IV} and ~~XX~~^V)

The planned new access route was selected to provide the shortest distance to the well site with acceptable grades from the main connector road. Temporary access will be built initially, if the facility is productive, the temporary road will be improved as follows:

(1) Width:

The average dirt width will be twenty feet. The average traveled surface width will be twenty feet. Road construction will be in accordance with typical roadways requested by the U. S. Bureau of Land Management.

(2) Maximum Grades:

The maximum grade will be 15% percent, however, this may vary as topographical conditions vary.

- (3) Turnouts: Turnouts are not required
- (4) Drainage Design:
Prior to construction of the new access road, the brush and topsoil will be windrowed to each side of the alignment outside construction limits. The subgrade surface will be a minimum elevation of one foot above ditch grade. The road surface will be center crowned and the inslopes will have a maximum slope of 3:1 and fill slopes will be a maximum of 2:1.
- (5) Culverts Use, Major Cuts and Fills: Culverts will be placed as needed and suggested by the BLM.
- Max: cut - Less than 10'
Max: fill - Less than 15'
- (6) Surfacing Material:
The proposed permanent access road will be constructed with native material.
- (7) Gates, Cattleguards, Fence Cuts:
Not needed
- (8) New portion of road ^{has been} ~~will be~~ center flagged

III. LOCATION OF EXISTING WELLS

The proposed well is a development well. Exhibit VI shows existing wells within a six mile radius.

- A. Water Wells: N/A
- B. Abandoned Wells: See Exhibit VI
- C. Temporarily Abandoned Wells: Exhibit VI
- D. Disposal Wells N/A
- E. Drilling Wells N/A
- F. Producing Wells: See Exhibit VI
- G. Shut-In Wells: Exhibit VI
- H. Injection Wells: N/A
- I. Monitoring or Observation Wells: None.

IV LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. Existing facilities within one mile owned or controlled by Lessee/Operator:

- (1) Tank batteries - N/A
- (2) Production facilities - N/A
- (3) Oil Gathering Lines - N/A
- (4) Gas Gathering Lines - See Exhibit VII
- (5) Injection Lines - N/A
- (6) Disposal Lines - N/A

B. New Facilities in the Event of Production:

- 1. New facilities: well head, condensate tank, production unit, meter house
- 2. Dimension of the facilities are shown in Exhibit II & III.
- 3. Construction will be to strip the topsoil, level drilling pad. Dehydrator pits will be constructed with soil materials native to the site. Construction methods will be employed to assume that no drainage flows are impounded to prevent the loss of any hydrocarbon from the site. This is to be done in a manner to facilitate rapid recovery and clean up.
- 4. Protective measures to protect wildlife and livestock: Dehydrator pits shall be overhead flagged should any hydrocarbon material be present on the surface. The dehydrator pits shall be fenced to prevent entry of livestock or wildlife.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. Those areas not required for continued usage will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded according to BLM specifications.

V. LOCATION AND TYPE OF WATER SUPPLY

- (a) The water source is from Bill Buniger's holdings and will be picked up from West Salt Creek.
- (b) Water Transportation system: Water to be hauled in trucks from an undetermined pick up point. The route to be the same as the rig move, over existing roads.
- (c) Water Wells: None

VI. SOURCE OF CONSTRUCTION MATERIALS

(a) Materials:

Construction materials will consist of soil encountered with the boundaries of the proposed site. Topsoil will be stripped to a depth of six inches and stockpiled in an area that does not interfere with operations.

(b) Land Ownership:

The planned site and access roads lie on Federal land administered by the United States Department of Interior, U.S. Bureau of Land Management.

(c) Materials Foreign to Site: NA

(d) Access road shown under item IV & V.

VII. METHODS OF HANDLING WASTE MATERIALS

(a) Cuttings:

Will be contained within the limits of the reserve pit.

(b) Drilling Fluids:

Will be retained in the reserve pit.

(c) Produced Fluids:

No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Previous to clean up operations the hydrocarbon materials will be skimmed or removed as the situation would dictate.

(d) Sewage::

Sanitary facilities will consist of at least one pit toilet. Waste will be contained in a pit and backfilled immediately following the drilling operations.

(e) Garbage:

A burn pit will be constructed and fenced with small mesh wire. The small amount of refuse will be buried upon completion, with a minimum three foot cover.

(f) Clean up of well site:

After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole and rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

VIII. ANCILLARY FACILITIES

None required.

IX. WELL SITE LAYOUT

1. See Exhibits II & III
2. Location of pits: II
3. Rig Orientation: III
4. Pits will be unlined, unless otherwise required.

X. PLANS FOR RESTORATION OF SURFACE

A. Reserve Pit Cleanup:

The pit will be fenced prior to rig release and shall be maintained until clean up. Previous to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of the site.

B. Restoration Plans - Production Developed:

The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C. Restoration Plans - No Production Developed:

Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and reseeded per Bureau of Land Management requirements.

X. PLANS FOR RESTORATION OF SURFACE

A. Reserve Pit Cleanup:

The pit will be fenced prior to rig release and shall be maintained until clean up. Previous to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of site.

B. Restoration Plans - Production Developed:

The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C. Restoration Plans - No Production Developed:

Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and reseeded per Bureau of Land Management requirements.

XI. OTHER INFORMATION

A. Surface Description: The site is Northeast of East Canyon in an area of broken mesas and deep erosional gullies. The soil is sandy; sandstone rims supporting pinon, juniper brush and native grasses. Other Surface - Use Activities: The surface is federally owned and managed by the BLM/USGS. The predominant surface use is mineral exploration and production.

C. Proximity of Water, Dwelling, Historical Sites:

1. Water: No reservoirs or live streams in the area.
2. Occupied Dwellings: Not existing.

3. Historical Sites: An Archaeological Reconnaissance has been performed for this location and clearance has been granted.

XII. OPERATOR'S REPRESENTATIVE

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:


Donald Barnes
720 So. Colorado Boulevard
Denver, Colorado 80222
Office: (303) 758-7130
Extension 212

M. L. Freeman
720 So. Colorado Boulevard
Denver, Colorado 80222
Office: (303) 758-7130
Extension 278

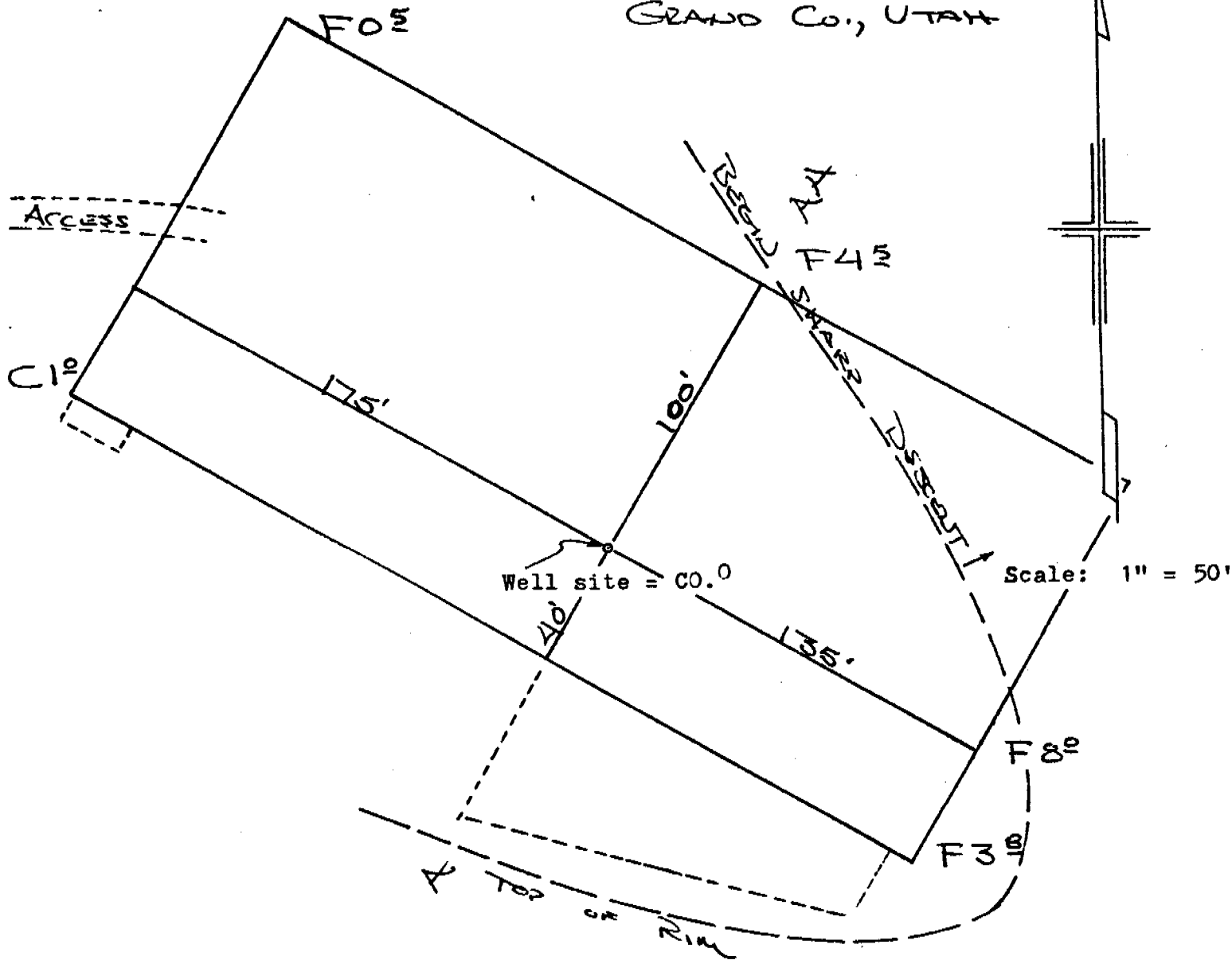
XIII. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors will conform to this plan.

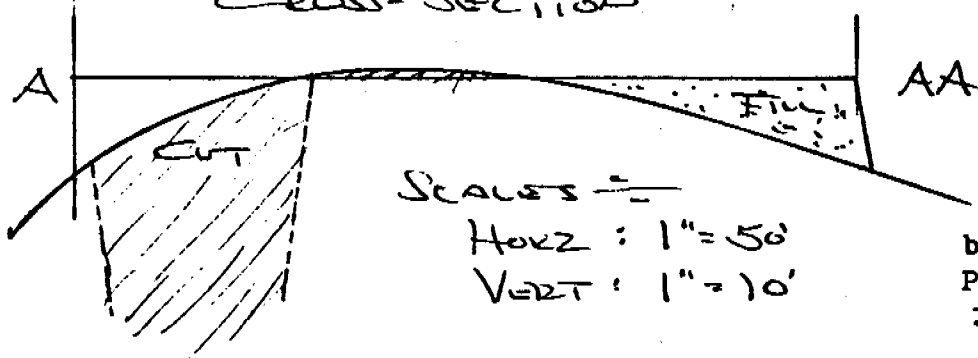
DATE: May 15, 1980


M. L. Freeman
Staff Production Analyst

WILSON
TENNECO OIL CO.
#33-2-
680' FNL & 1400' FEL
SE. 33, T16S, R24E
GRAND CO., UTAH



CROSS-SECTION



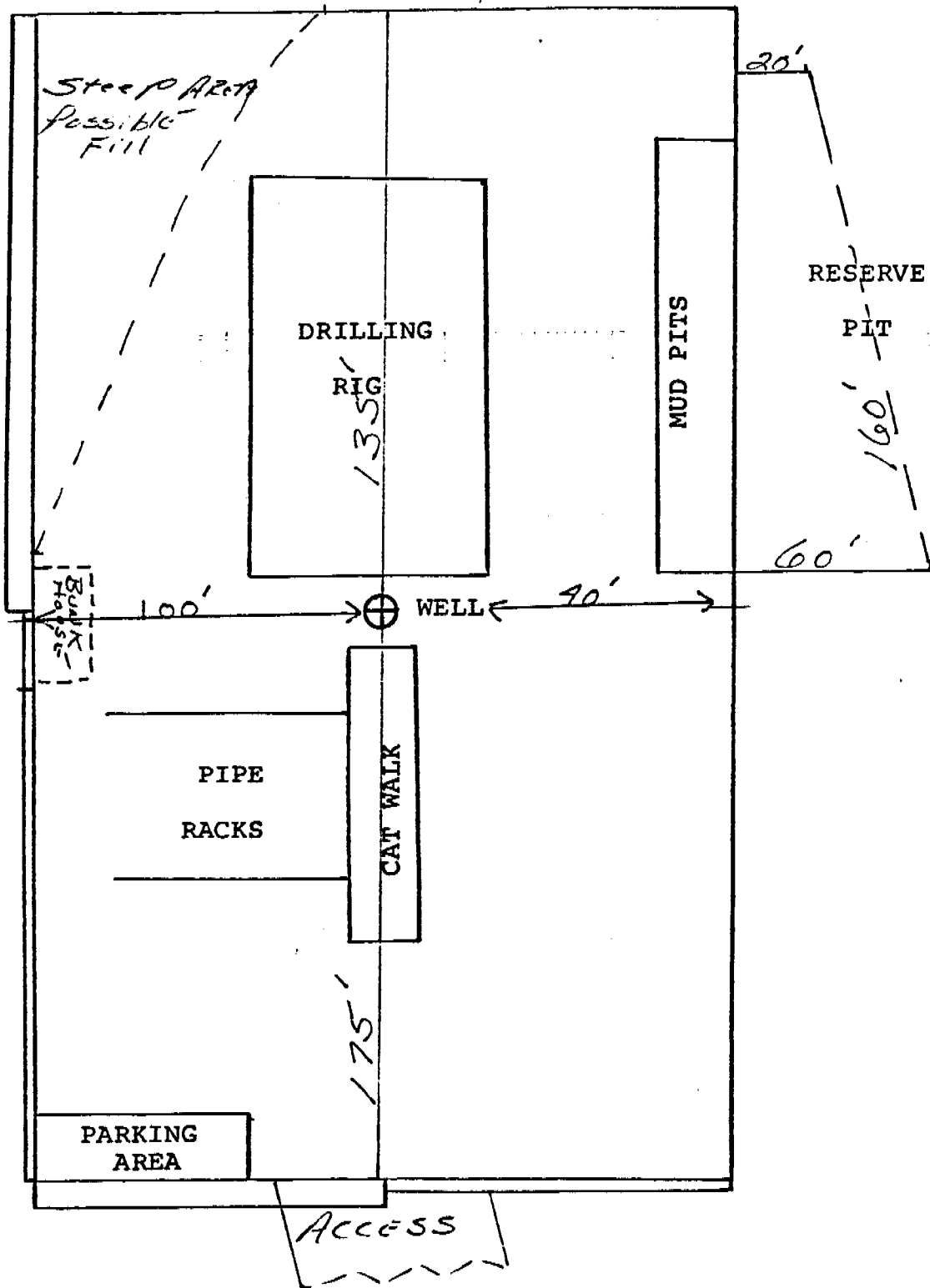
by: R.H. Dumm
Powers Elevation Company, Inc.
28 Nov 79

COMPANY

SUBJECT DRILLING WELL SITE LAYOUT *Wilson 33-2*

LOCATION

DATE *5-14-80*



BLM Report ID No. 1 - 1 0 1 0 1 0

Report Acceptable Yes ☐ No ☐

Mitigation Acceptable Yes ☐ No ☐

Comments: _____

10. Description of Examination Procedures:
Area is restricted to a single ridge and adjacent benches to the ridge. The study area was surveyed with zig-zag parallel transects at intervals of 30 meters. The access was surveyed with two transects, one on each side of the center line at a distance of 25 feet.
11. Linear Miles Surveyed

1	0	3	3						
---	---	---	---	--	--	--	--	--	--

and/or Definable Acres Surveyed

104									112
11	5								

and/or *Legally Undefinable Acres Surveyed

113									121

122									130
-----	--	--	--	--	--	--	--	--	-----

(*A parcel hard to cadastrally locate i.e., center of section)
12. Inventory Type

1	1
---	---

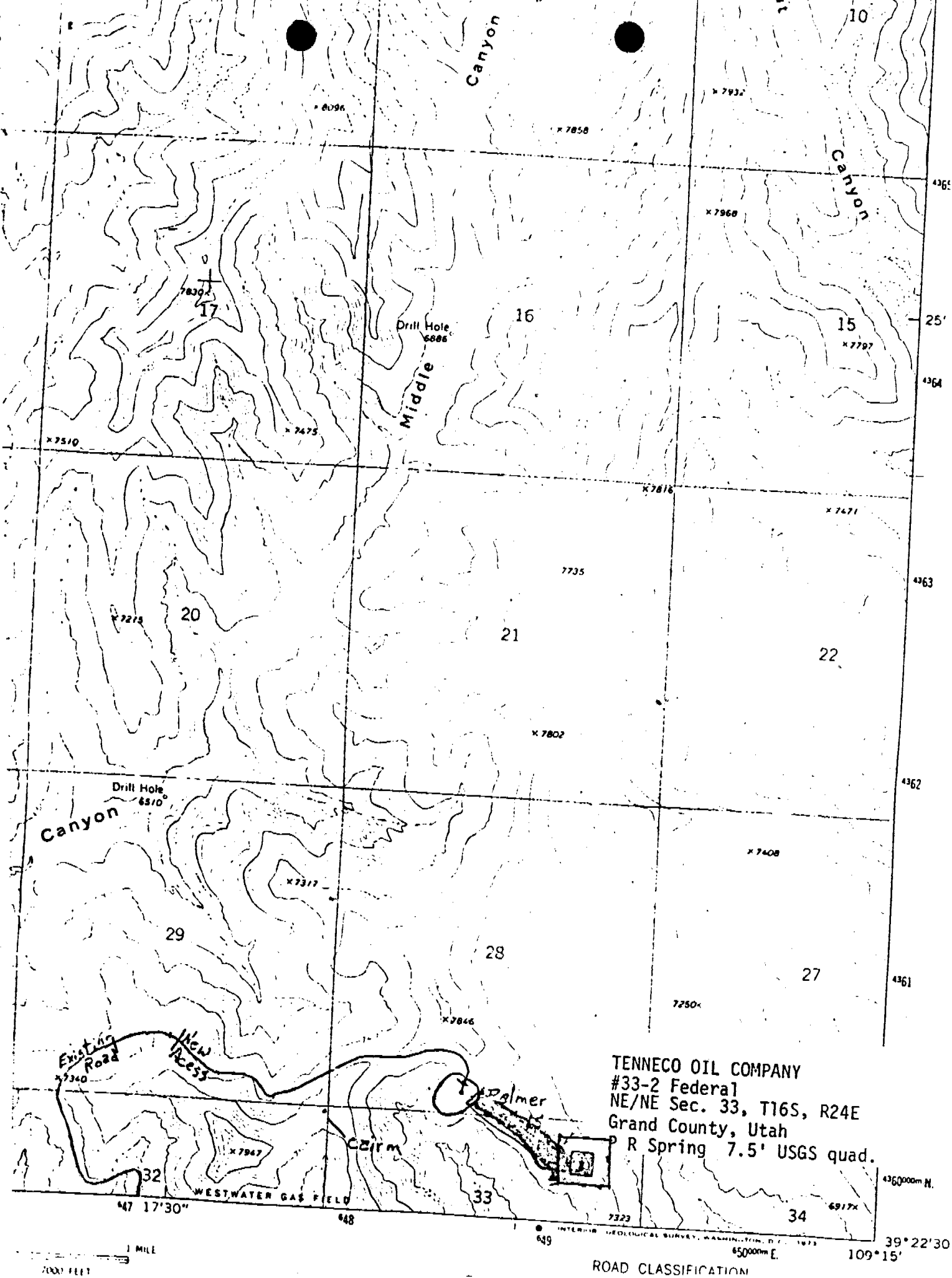
R = Reconnaissance
I = Intensive
S = Statistical Sample

13. Description of Findings (attach appendices, if appropriate).
Investigation procedures provided no cultural resource material within the study area.
14. Number Sites Found: 0
No sites = 0 132
15. Collection: N Y = Yes, N = No 138

16. Actual/Potential National Register Properties Affected: File search indicates that there are no previously recorded sites within the study area. Many surveys have been conducted but the site density is very low.

17. Conclusion/Recommendations:
As no cultural resource material was located in the project area clearance is recommended for the well pad and access.

18. Signature of person in direct charge of field work: G.D. Hume (over)
19. Signature and Title of Institutional Officer Responsible William D. Hume
Division Manager
UT 8100-3 (4/79)



** FILE NOTATIONS **

DATE: September 16, 1980

OPERATOR: Tenneco Oil Company

WELL NO: Wilson #33-2

Location: Sec. 33 T. 16S R. 24E County: Grand

File Prepared: ☐

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-019-30703

CHECKED BY:

Petroleum Engineer: M. S. Minder 9-18-80

Director: _____

Administrative Aide: OK per spacing order
Mike check distance from Tedney 28-13 - permitted as Morris
gas well - see distances on plat - must be 1600' OK

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. 165-4 6/26/79

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation 3rd Unit

Plotted on Map ☒

Approval Letter Written ☒

Hot Line ☒

P.I. ☒

Wtm

#3
laydown

September 18, 1980

Tenneco Oil Company
720 South Colorado Boulevard
Denver, Colorado 80222

Re: Well No. Wilson #33-2
Sec. 33, T. 16S, R. 24E.,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 165-4 dated June 26, 1979. This well has been designated as a laydown 320.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30703.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/btm
cc: USGS



United States Department of the Interior

IN REPLY REFER

3100
(U-603)

BUREAU OF LAND MANAGEMENT
Moab District
Grand Resource Area
P.O. Box M
Moab, Utah 84532

September 28, 1979

Tenneco Oil Co.
Penthouse
720 South Colorado Blvd.
Denver, CO 80222

Reference: Tenneco Oil Co.
TOC Federal 33-2 NENE Sec. 33 T. 16 S., R. 24 E.
TOC Federal 1-13 SWSW Sec. 1 T. 17 S., R. 24 E.
TOC Federal 1-5 SWNW Sec. 1 T. 17 S., R. 24 E.
Grand County, Utah

Dear Mr. Traywick:

This office has no objections to staking the above referenced locations.

An archaeological clearance must be obtained after staking the site(s).

Sincerely yours,

C. Delano Backus

C. Delano Backus
Area Manager

Enclosure:
Archaeologist List

cc:
Ed Guynn

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TENNECO OIL CO.
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Save Energy and You Serve America!



POWERS ELEVATION COMPANY, INC.
ARCHAEOLOGICAL DIVISION
Complete Archaeological Consulting Services

P.O. Box 119
Eagle, Colorado 8163
303-328-737

26 November 1979

Paul Traywick
Tenneco Oil Company
720 So. Colorado Blvd.
Denver, Colo. 80222

Dear Mr. Traywick:

Enclosed are the archaeological survey reports of Powers Elevation Company for Tenneco Oil Company's well locations in Colorado and Utah as follows:

Tenneco #28-2 Federal Colorado
Tenneco #28-10 Federal Colorado
Tenneco #1-5 Federal Utah
Tenneco #33-2 *Wilson* Utah

All of the above well locations and the accesses have been recommended for cultural resource clearance.

If you have any questions on these reports please feel free to contact this office at your convenience.

Sincerely,

Michael D. Metcalf
Division Manager

MDM/sjm

cc: Colorado: Dr. Bruce Rippeteau, Colorado State Archaeologist
Priscilla Meekham, White River Resource Area, Meeker
Beth Walton, Craig District Office, BLM

Utah: Bruce Loutham, BLM District Archaeologist, Moab
Grand Resource Area, Moab
Richard Fike BLM State Archaeologist, Salt Lake City
Dr. David Madson, Utah State Archaeologist, Salt Lake City

Powers Elevation Co., Denver
District Engineer, USGS, Salt Lake City

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR
Tenneco

3. ADDRESS OF OPERATOR
P.O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL 990' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

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☐
☐
☐

5. LEASE
U-31468

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Wilson USA

9. WELL NO.
33-2

10. FIELD OR WILDCAT NAME
Und. Palmer

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33, T16S; R24E

12. COUNTY OR PARISH Grand 13. STATE Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7378' gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11/15/80

POOH w/2 3/8" tbg. RIH w/2 3/8" tbg and 4 1/2" tension pkr. set pkr @ 4242' w/15,000# tension. Acidized Lower Mancos B w/800 gals 5% acid. AIR: 4 BPM AIP: 400 PSI, ISIP: 0 PSI, 649 bbls wtr., 78 bbls. 5% acid, and 17 bbls. 2% KCL flush. Made 17 swab runs recovered 20 bbls. fluid.

NOV 15 1980

Subsurface Safety Valve: Menu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Chelly Watkins TITLE Asst Div Adm Mgr DATE 12/1/80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR

Tenneco

3. ADDRESS OF OPERATOR

Box 3249, Englewood, Colorado 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 660' FNL 990' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) squeeze job.

SUBSEQUENT REPORT OF:

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5. LEASE

U-31468

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Wilson USA

9. WELL NO.

33-2

10. FIELD OR WILDCAT NAME

Und. Palmer

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 33. T16S, R24E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

7378' gl

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10/30 POOH w/tbg & pkr. RU perforators and shot 4 each 1 1/2" holes @ 4000'. RIH w/2-7/8" tbg & cmt. retainers. set retainer @ 3940. Pumped 45sx CL-B w/2% CACL₂. Displaced cmt to top of retainers. Stung out of retainer & reversed out tbg volume. POOH w/ tbg. RIH w/2-3/8" tbg. & pkr. set pkr. @ 1382'. Established injection rate. Pumped 100 sx RFC w/2% CACL₂. followed by 100sx CL-B w/2% CACL₂. Started hesitation squeeze w/RFC behind pipe. Squeezed @ 2400 PSI w/46bls cmt. left in csg. Total cmt. behind pipe: 44 bbls. w/o cmt. Drilled 858' light to hard cmt. to 2602'. Circ'd hole clean.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Carley Hatten TITLE Asst.Div.Adm.Mgr. DATE 11 November, 1980

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

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NOV 24 1980

*See Instructions on Reverse Side

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Tenneco Oil Company
3. ADDRESS OF OPERATOR
Box 3249, Englewood Colorado 80155
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 680' FNL 1400' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- | REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: | |
|--------------------------|--------------------------|-----------------------|-------------------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | | <input checked="" type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | | <input checked="" type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | | <input type="checkbox"/> |
| ABANDON* | <input type="checkbox"/> | | <input type="checkbox"/> |
| (other) | | | |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
- 11/4 Drilled 370' cmt. TD @ 3100' KB. RIH w/tbg & 3-7/8" bit. Drilled 180' of hard cmt. TD: 3280'. Drilled 120' cmt to 3400'. Broke thru cmt. RIH w/2 stands. PT csg. to 3000 PSI. Held OK. RIH to cmt. retainer @ 3940'. Drilled remaining cmt. PT csg. to 3000 PSI. Held good. Circ'd hole clean w/1% KCL water. Swabbed csg. dn to 3500'. POOH w/tbg & bit. Perf'd Lower Mancos (2JSPF) 4298-4306'. RIH w/tbg & pkr. Set tension pkr @ 4242'. Acidized Mancos perms w/5000 gals 7 1/2% MSR acid and 20 balls. AIR: 4 1/2" BPM, AIR: 2200 PSI, ISIP: 0 PSI. SITP: 0 PSI, SICP: 0 PSI. POOH w/tbg & pkr. Frac'd Lower Mancos w/ 31,000 gals 30# XL gel & 100,000# 20/40 sand. 44,000 # 10/20 sand, w/4450 SCF N₂/bbls AIR: 20 BPM @ 1900#. RA sand run @ 314 millicuries/1000# sand in last 84,000# sand. ISIP: 1700 PSI, 5min SIP: 1400PSI. Flowed well to clean-up pit.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles J. [Signature] TITLE Asst. Div. Adm. Mgr DATE November 19, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 3249 Englewood, Colo 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 680' FNL 1400' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

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☒
☒
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☐
☒
☐

5. LEASE

U-31468

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Middle Canyon Unit

8. FARM OR LEASE NAME
Wilson

9. WELL NO.
33-2

10. FIELD OR WILDCAT NAME
Morrison

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 33, T16S, R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7378'gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11/20/80 Abandoned Lower Mancos B. Set CIBP @ 4250'. POOH w/2-3/8" tbg. Perf'd Upper Mancos B 4026-4042'. RIH w/2-3/8" tbg. & 4 1/2" 32-A tension pkr. Set pkr @ 4125'. Tested CIBP to 2500 PSI. Released pkr. Set pkr @ 3906'. Acidized Upper Mancos B w/500 gals 7 1/2% DI-HCL. Frac'd dn csg. @ 32 BPM. 3500 PSI max. pressure w/40#gel, 198,000# 20/40 sand, 8,000# 10/20 sd. 450 SCF/bbl. N₂ Flushed w/48 bbls 2% KCL water. AIP: 1700 PSI, AIR: 32 BPM, ISIP: 800 PSI, 15 min SIP: 750 PSI. RIH w/2-3/8" tbg. Tagged sand fill @ 4209'. POOH w/2-3/8" tbg. RIH w/1 1/2" tbg. sn 1 jt off bottom. Landed tbg @ 4063'. Well flowing up clean up. ADMOSU.

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DEC 26 1980

Subsurface Safety Valve: Manu. and Type _____

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

William H. Hughton

TITLE Asst. Div. Adm. Mgr. DATE December 12, 1980

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other
2. NAME OF OPERATOR
Tenneco Oil Company
3. ADDRESS OF OPERATOR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL 990' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Spudding/csg report		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9/23/80 Spudded 12 1/4" hole 9/23/80. Drilled to 808'. Reduced hole to 8-3/4". Continued drilling. Ran 65 jts 7" 23# K-55 csg. Landed @ 2820'. FC @ 2779'. Cmt w/530sxs. RFC. Plug down 9/29/80. Top job w/50sx CL-B & 2% CACL₂. Circ cmt. Reduced hole to 6 1/4" continued drilling. Ran 161 jts 4 1/2" 10.5# csg. set @ 6667'. FC @ 6635'. Cmt w/350sx RFC. PD 10/18/80. Hang 66,000# on slips. Release rig 10/19/80.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles R. Hatten TITLE Asst. Div. Adm. Mgr. DATE February 16, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. U-31468	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Tenneco Oil Company				7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155				8. FARM OR LEASE NAME Middle Canyon Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 680' FNL 1400' FEL At top prod. interval reported below At total depth				9. WELL NO. Wilson <i>Wildcat</i>	
14. PERMIT NO. 43-019-30703				DATE ISSUED 9/18/80	
15. DATE SPUDDED 9/23/80				16. DATE T.D. REACHED 10/17/80	
17. DATE COMPL. (Ready to prod.) 5/6/81				18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 7378' gr.	
20. TOTAL DEPTH, MD & TVD 6667'				21. PLUG, BACK T.D., MD & TVD 4250'	
22. IF MULTIPLE COMPL., HOW MANY*				23. INTERVALS DRILLED BY → 0' - TD	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4026-4042' Mancos B				25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN DI/SFL, ACB/GR, SNPL, CFDI, CNFD				27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)					
CASINO SIZE		WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
7"		23#	2820'	8-3/4"	530sx RFC; 50sx Class B
4-1/2"		10.5#	6667'	6-1/4"	350sx RFC
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
	4063'				
31. PERFORATION RECORD (Interval, size and number)					
4026-42' 16' 32 holes 2 JSPF					
4298-4306' 8' holes (CIBP @ 4250' plugged off)					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
4026-42'		500 gals 7-1/2% DI-HCL; 61,000 gals 40# XL gel, 198,000# 20/40 & 8,000# 10/20 sand			
4298-4306'		5000 gals 7-1/2% DI-HCL; 31,000 gals 30# XL gel & 100,000# 20/40 & 44,000# 10/20 (PA) sand			
33.* PRODUCTION					
DATE FIRST PRODUCTION 5/6/81		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			
DATE OF TEST 5/6/81		HOURS TESTED 24 hrs.	CHOKE SIZE 1" orifice	PROD'N. FOR TEST PERIOD →	OIL—BBL. 392
FLOW, TUBING PRESS. 210 PSI		CASING PRESSURE 280 PSI	CALCULATED 24-HOUR RATE →	GAS—MCF. 392	WATER—BBL. 392
84. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.) Sold					
85. LIST OF ATTACHMENTS Electric logs forwarded by Schlumberger and OWP.					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <i>Carly Hatten</i> TITLE Asst. Div. Adm. Mgr.				DATE 5/8/81	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Mesaverde	Surface	2500	Sand, shale, water	Frontier	6110	
Castlegate	2812	2900	Sand, water	Dakota Silt	6394	
Mancos B	4018	4045	Shaley sand, gas			
Dakota	6489	TD	Sand, shale, water			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)

AMENDED

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. U-31468	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME Middle Canyon Unit	
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155		8. FARM OR LEASE NAME Wilson	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 680' FNL & 1400' FEL At top prod. interval reported below At total depth		9. WELL NO. 33-2	
14. PERMIT DIVISION OF DATE ISSUED 43-019-30203 MINING 9/18/80		10. FIELD AND POOL, OR WILDCAT Mancos B Wildcat	
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 33, T16S R24E		12. COUNTY OR PARISH Grand	
13. STATE Utah		18. ELEVATION (OF, RKB, RT, GR, ETC.)* 7378' gr.	
15. DATE SPUDDED 9/23/80	16. DATE T.D. REACHED 10/17/80	17. DATE COMPL. (Ready to prod.) 5/6/81	19. ELEV. CASING HEAD -
20. TOTAL DEPTH, MD & TVD 6667'	21. PLUG, BACK T.D., MD & TVD 4250'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY 0'-TD
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4026-4042' Mancos B			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN DI/SFL, ACB/GR, SNPL, CFDI, CNFD			27. WAS WELL CORED No
28. CASING RECORD (Report all strings set in well)			
CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
7"	23#	2820'	8-3/4"
4-1/2"	10.5#	6667'	6-1/4"
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
	4063'		
31. PERFORATION RECORD (Interval, size and number)			
4026-42' 16' 32 holes 2 JSPF			
4298-4306' 8' holes (CIBP @ 4250' plugged off)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
4026-42'		500 gals 7-1/2% DI-HCL; 61,000 gals 40# XL gel, 198,000# 20/40 & 8,000# 10/20 sand	
4298-4306'		5000 gals 7-1/2% DI-HCL; 31,000 gals 30# XL gel & 100,000# 20/40 sand	
33.* PRODUCTION			
DATE FIRST PRODUCTION 5/6/81	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing		
DATE OF TEST 5/6/81	HOURS TESTED 24 hrs.	CHOKE SIZE 1" orifice	PROD'N. FOR TEST PERIOD OIL—BSL. GAS—MCF. WATER—BSL. GAS-OIL RATIO 392
FLOW. TUBING PRESS. 210 PSI	CASING PRESSURE 280 PSI	CALCULATED 24-HOUR RATE OIL—BSL. GAS—MCF. WATER—BSL. OIL GRAVITY-API (CORR.) 392	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold			TEST WITNESSED BY
35. LIST OF ATTACHMENTS Electric logs forwarded by schlumberger and OWP.			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED Carley Matheson		TITLE Asst. Div. Adm. Mgr.	
DATE 5/27/81			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s) and bottom(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Mesaverde	Surface	2500	Sand, shale, water	Frontier	6110	
Castlegate	2812	2900	Sand, water	Dakota Silt	6394	
Mancos B	4018	4045	Shaley sand, gas			
Dakota	6489	TD	Sand, shale, water			

Tenneco Oil Company

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6162 South Willow Drive
Englewood, Colorado



July 3, 1984

State of Utah
Natural Resources
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

RECEIVED

JUL 5 1984

Attn: Mr. Norman C. Stout:

DIVISION OF OIL
GAS & MINING

Dear Mr. Stout:

Per our conversation on June 26, I am enclosing a copy of the list of wells to be put into your computer system. In addition, the Wilson 33-2 which is presently set up in your system, was sold to Quinoco Petroleum Inc., effective March 1, 1984. This is the only well presently in the Tenneco Account Number N0950.

The following wells on the attached list were also sold to Quinoco Petroleum, Inc. effective March 1, 1984:

Federal 28-15
Federal 5-13
Tenneco USA 11-6

The following wells were P&A'd: see attached sundries:

Tenneco Bullpup 1-8
R.C. Federal 1-19

The following wells have never produced and are currently TA'd:

Federal 29-15
Diamond Canyon USA 15-5 (shows 15-7 on list)
Sulpher Canyon USA 1-15
Rattlesnake Canyon 2-12
Willow Creek East 29-13
Willow Creek East 30-5

We show no records concerning the TOC USA 15-11 ever being drilled.

State of Utah
July 3, 1984
Page 2

RECEIVED

JUL 5 1984

DIVISION OF OIL
& GAS & MINING

The Upper Valley Unit shown by letter A should be one producing entity. The four wells shown by letters B, C, D and E will each need to be a separate producing entity.

The new turnaround reporting forms should be mailed to:

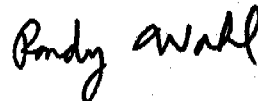
Tenneco Oil Company
P. O. Box 3249
Englewood, CO 80155

Attn: Ursula Sulzbach

Should you have any questions or need additional information, please call me at (303) 740-2585.

Respectfully,

TENNECO OIL COMPANY



Randy Wahl
Senior Revenue Analyst

RW/wt
Attachments

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

THIS IS TRIPLED
DO NOT WRITE THESE ON
OTHER SIDE

56W

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		4. LEASE INFORMATION AND SERIAL NO. U-31468	
2. NAME OF OPERATOR Ominex Petroleum, Inc.		5. BY INDIAN, ALLOTTED OR TRIBE NAME 031708	
3. ADDRESS OF OPERATOR Stanford Place 1, Suite 1060 8055 E. Tufts Ave. Pkwy., Denver, CO 80237		6. UNIT AGREEMENT NAME Middle Canyon Unit	
7. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 680' FNL, 1400' FEL		7. NAME OF LEASE NAME Wilson	
8. PERMIT NO. 43-019-30703		8. WELL NO. 33-2	
9. ELEVATIONS (Show whether SF, ST, OR GR.) 7378' GR		9. FIELD AND POOL, OR WILDCAT Morrison	
10. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. SEC., T., R., M., OR S.E. AND SUBST OR AREA Sec.33, T16S, R24E	
11. Grand		11. Utah	

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) ☐

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS
☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) ☐

REPAIRING WELL
ALTERING CASING
ABANDONMENT*
☐

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Change of Operator from Quinoco Petroleum, Inc., P.O. Box 378111, Denver, CO 80237 to Ominex Petroleum, Inc. effective as of March 1, 1987.

RECEIVED
MAR 12 1987

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Mary Earle

TITLE Production Analyst

DATE

3-1-87

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:
OMIMEX PETROLEUM, INC.

3. Address and Telephone Number: 8055 E. Tufts Avenue Parkway, #1060
Denver, CO 80237 (303) 771-1661

4. Location of Well

Footages:

QQ, Sec., T., R., M.: NWNE Sec. 33-16S-24E

5. Lease Designation and Serial Number:

U-31468

6. If Indian, Allocated or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Wilson 33-2

9. API Well Number:

43-0193070300

10. Field and Pool, or Wildcat:

Bryson Canyon

County: Grand

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Annual Status Report</u> | |

Date of work completion Shut in prior to January 1990

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Omimex has no future plans for this well.

RECEIVED

MAR 15 1993

DIVISION OF
OIL GAS & MINING

13.

Name & Signature: B. J. Whitney

B. J. Whitney

Title: Production Analyst

Date: 3/10/93

(This space for State use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: temporarily abandoned		5. Lease Designation and Serial Number: UTU31468
2. Name of Operator: Ominex Petroleum, Inc.		6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: 8055 E. Tufts Ave. Pkway., #1060 - Denver, CO 80237 (303)771-1661		7. Unit Agreement Name:
4. Location of Well Footages: QQ, Sec., T., R., M.: NWNE 33-16S-24E		8. Well Name and Number: Wilson #33-2
9. API Well Number: 43-01930703		10. Field and Pool, or Wildcat: Bryson Canyon Field
County: Grand		State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off <input checked="" type="checkbox"/> Other <u>Change of Operator</u>
Approximate date work will start _____	Date of work completion _____ Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective November 1, 1993 operatorship transferred to:

North Star Resources, Inc.
15000 NW Freeway
Houston, TX 77040

(corporate office)

2210 Highway 6N50
Grand Junction, CO 81505
(303) 245-5902

(operations office)

13. Name & Signature: B. J. Whitney Title: Production Analyst Date: 11/11/92

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

UTU31468

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

WILSON #33-2

9. API Well No.

43-01930703

10. Field and Pool, or Exploratory Area

BRYSON CANYON

11. County or Parish, State

GRAND COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

NORTHSTAR GAS COMPANY INC.

3. Address and Telephone No.

820 GESSNER SUITE 1630 713-935-9542
HOUSTON TX 77024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NWNE 33-16S-24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

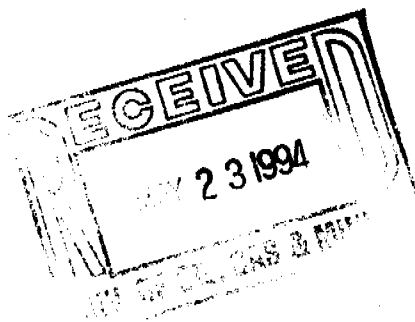
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **CHANGE OF OPERATOR**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

EFFECTIVE 11-01-93 NORTHSTAR GAS CO. INC. WILL BECOME OPERATOR OF THE ABOVE WELL.



14. I hereby certify that the foregoing is true and correct

Signed

PAUL BERNARD

Title

SEC/TREAS

Date

050494

(This space for Federal or State Use)

WILLIAM C. STRINGER

Associate District Manager

Date

MAY 15 1994

Approved by

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Northstar Gas Company, Inc.
Well No. Wilson 33-2
NWNE Sec. 33, T. 16 S., R. 24 E.
Grand County, Utah
Lease U-31468

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Northstar Gas Company, Inc., is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT0845 (Principal - Northstar Gas Company, Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-DEC	7-DEC
2-DPS	
3-VLC	
4-RJF	
5-PL	
6-SJ	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 11-1-93)

TO (new operator)	<u>NORTHSTAR GAS COMPANY INC.</u>	FROM (former operator)	<u>OMIMEX PETROLEUM INC.</u>
(address)	<u>15000 NW FWY STE 203</u>	(address)	<u>8055 E TUFTS AVE STE 1060</u>
	<u>HOUSTON, TX 77040</u>		<u>DENVER, CO 80237</u>
	<u>PAUL BERNARD</u>		
	phone (713) <u>937-4314</u>		phone (303) <u>771-1661</u>
	account no. <u>N 6680</u>		account no. <u>N 0735</u>

Well(s) (attach additional page if needed):

Name:	<u>FEDERAL 3-8/DKTA</u>	API:	<u>43-019-30521</u>	Entity:	<u>6545</u>	Sec	<u>3</u>	Twp	<u>17S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U38838A</u>
Name:	<u>FEDERAL 3-15/DK-MR</u>	API:	<u>43-019-30463</u>	Entity:	<u>6530</u>	Sec	<u>3</u>	Twp	<u>17S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U38838A</u>
Name:	<u>FEDERAL 5-13/DKTA</u>	API:	<u>43-019-30544</u>	Entity:	<u>6528</u>	Sec	<u>5</u>	Twp	<u>17S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U41372</u>
Name:	<u>FEDERAL 28-15/DKTA</u>	API:	<u>43-019-30545</u>	Entity:	<u>9160</u>	Sec	<u>28</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U10152A</u>
Name:	<u>WILSON 33-2/MNCSE</u>	API:	<u>43-019-30703</u>	Entity:	<u>9162</u>	Sec	<u>33</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U31468</u>
Name:	<u>WILSON 33-15/DKTA</u>	API:	<u>43-019-30520</u>	Entity:	<u>2870</u>	Sec	<u>33</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U31468</u>
Name:	<u>BROWN USA 35-3/DK-MR</u>	API:	<u>43-019-30771</u>	Entity:	<u>6526</u>	Sec	<u>35</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U10152</u>

CONT.

OPERATOR CHANGE DOCUMENTATION

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 11-15-93)
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 11-19-93) (Rec'd 5-23-94)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: ____.
- 3 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 4 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (5-31-94)
- 5 6. Cardex file has been updated for each well listed above. 6-1-94
- 6 7. Well file labels have been updated for each well listed above. 6-1-94
- 7 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (5-31-94)
- 8 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: June 8 1994.

FILING

- ✓ 1. Copies of all attachments to this form have been filed in each well file.
- ✓ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

940531 Btm/Moab App. 5-15-94 eff. 11-1-93.

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER: _____

2. Name of Operator: NORTHSTAR GAS COMPANY, INC.

3. Address and Telephone Number:

820 GESSNER, SUITE 1630, HOUSTON, TX 77024 713-935-9542

4. Location of Well

Footages:

OO, Sec., T., R., M.: NWNE 33-16S-24E

5. Lease Designation and Serial Number:

UTU31468

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

WILSON #33-2

9. API Well Number:

43-01930703

10. Field and Pool, or Wildcat:

BRYSON CANYON

County: GRAND

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>CHANGE OF OPERATOR</u> | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

EFFECTIVE NOVEMBER 1, 1993 OPERATORSHIP TRANSFERRED FROM:

OMIMEX PETROLEUM, INC.

8055 E. TUFTS AVE. PKWAY. #1060

DENVER CO 80237 (303) 771-1661

TO:

NORTHSTAR GAS COMPANY, INC.

820 GESSNER, SUITE 1630

HOUSTON, TX 77024 (713) 935-9542

MAY 27 1994

13.

Name & Signature: Harry H. DeanTitle: PresidentDate: 5/24/94

(This space for State use only)